

CLAIMS:

1. A recording and replaying apparatus, comprising:
a drive controller which houses an optical disk holding identification information, which is connected to an optical disk drive which controls start-up of and recording and replaying on said optical disk, and which controls said optical disk drive; and

a disk information storage buffer which is connected to said drive controller and stores use conditions which correspond to the identification information of an optical disk,

wherein when use conditions which correspond to the identification information of an optical disk to be used are stored in said disk information storage buffer, said drive controller instructs said optical disk drive so that said optical disk drive executes first adjustment processing using said use conditions, and

when said use conditions which correspond to the identification information of said optical disk to be used are not stored in said disk information storage buffer, said drive controller instructs said optical disk drive so that said optical disk drive executes second adjustment processing without using said use conditions.

2. The recording and replaying apparatus according to claim 1, wherein use conditions obtained as a result of said first adjustment processing or said second adjustment processing are stored in said disk information storage buffer from said optical disk drive.

3. The recording and replaying apparatus according to claim 1, wherein said use conditions for said optical disk are information which is used at the time of recording in said optical disk or replaying from said optical disk, said adjustment processing is processing of identifying use conditions for said optical disk to perform optimal recording or replaying on said optical disk.

4. The recording and replaying apparatus according to claim 3, wherein said information which is used at the time of recording or replaying is information regarding at least one of the power of laser, the pulse width of said laser and a servo condition.

5. The recording and replaying apparatus according to claim 2, wherein the identification information of said optical disk includes at least one of an individual ID, a manufacturer name and a model number, and said first adjustment processing includes first partial adjustment processing and second partial

adjustment processing,

when said ID of said optical disk is stored in said disk information storage buffer, said drive controller instructs said optical disk drive so that said optical disk drive executes said first partial adjustment processing using said use conditions for said optical disk which correspond to said ID,

when said ID of said optical disk is not stored in said disk information storage buffer and said manufacturer name and/or said model number of said optical disk is stored in said disk information storage buffer, said drive controller instructs said optical disk drive so that said optical disk drive executes said second partial adjustment processing using said use conditions for said optical disk which correspond to said manufacturer name and/or said model number, and

use conditions obtained as a result of said first partial adjustment processing or said second partial adjustment processing are stored in said disk information storage buffer from said optical disk drive.

6. The recording and replaying apparatus according to claim 3, wherein said drive controller is capable of accessing, through a telecommunication line, a disk information storage device which stores the identification information of said optical disk and use conditions which correspond to the identification information, and

when use conditions which correspond to the identification information of said optical disk to be used are not stored in said disk information storage buffer, said drive controller instructs said optical disk drive so that said optical disk drive acquires use conditions which correspond to the identification information from said disk information storage device through said telecommunication line and executes said first adjustment processing using said use conditions instead of executing said second adjustment processing.

7. The recording and replaying apparatus according to claim 6, wherein said disk information storage device stores said use conditions for each optical disk type and/or each optical disk manufacturer, corresponding to at least one of a manufacturer name, a model type and software information related to said recording and replaying apparatus and hardware information and software information related to said optical disk drive.

8. The recording and replaying apparatus according to claim 7, wherein said information stored in said disk information storage device can be updated through said telecommunication line.

9. The recording and replaying apparatus according to

claim 3, wherein said first adjustment processing or said second adjustment processing includes optimization of processing of recording or replaying in accordance with the temperature of said optical disk to be used or an ambient temperature.

10. A recording and replaying method, comprising the steps of:

when use conditions which correspond to identification information of an optical disk to be used in an optical disk drive are stored in a disk information storage buffer of an optical disk recorder which is connected to said optical disk drive, instructing to execute first adjustment processing using said use conditions; and

when said use conditions which correspond to the identification information of said optical disk to be used are not stored in said disk information storage buffer, instructing to execute second adjustment processing without using said use conditions.

11. The recording and replaying method according to claim 10, comprising the step of storing use conditions obtained as a result of said first adjustment processing or said second adjustment processing in said disk information storage buffer.

12. A program which makes a computer function as said

drive controller of the recording and replaying apparatus according to claim 1.

13. A recording medium which holds the program according to claim 12 and which can be processed by a computer.

14. A recording and replaying system, comprising:
an optical disk drive which houses an optical disk holding identification information and controls start-up of and recording and replaying on said optical disk;

a drive controller which controls said optical disk drive; and

a disk information storage buffer which is connected to said drive controller and stores use conditions which correspond to the identification information of an optical disk,

wherein when use conditions which correspond to the identification information of an optical disk to be used are stored in said disk information storage buffer, said drive controller instructs said optical disk drive so that said optical disk drive executes first adjustment processing using said use conditions, and

when said use conditions which correspond to the identification information of said optical disk to be used are not stored in said disk information storage buffer, said drive

controller instructs said optical disk drive so that said optical disk drive executes second adjustment processing without using said use conditions.

15. The recording and replaying system according to claim 14, wherein use conditions obtained as a result of said first adjustment processing or said second adjustment processing are stored in said disk information storage buffer from said optical disk drive.

16. The recording and replaying system according to claim 14, further comprising a disk information storage device which can be accessed through a telecommunication line and which stores the identification information of an optical disk and use conditions which correspond to the identification information.